

***FlyBy Math™* Alignment**
Idaho Achievement Standards
Mathematics 2-1-06

Standard 1: Number and Operation

Goal 1.1: Understand and use numbers.

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.1.1.7 Select strategies appropriate for solving a problem.	<p>--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.</p> <p>--Use tables, graphs, and equations to solve aircraft conflict problems.</p> <p>--Compare predictions, calculations, and experimental evidence for several aircraft conflict problems.</p>

Goal 1.2: Perform computations accurately

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.1.2.7 Use a variety of strategies to solve real life problems. (308.01 a)	<p>--Use tables, graphs, and equations to solve aircraft conflict problems.</p> <p>--Use the distance-rate-time formula to predict and analyze aircraft conflicts.</p>

Goal 1.3: Estimate and judge reasonableness of results.

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.1.3.1 Estimate to predict computation results. (307.03 a)	--Predict outcomes and explain results of mathematical models and experiments.
5.M.1.3.5 Formulate conjectures and discuss why they must be or seem to be true. (308.02c)	--Predict outcomes and explain results of mathematical models and experiments.

Standard 2: Concepts and Principles of Measurement

Goal 2.1: Understand and use customary and metric measurements.

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.2.1.1 Select and use appropriate units and tools to make formal measurements of length, temperature, weight, and volume (capacity) in both systems. (309.01.a)	--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.

5.M.2.1.2 Estimate length, time, weight, temperature, and volume (capacity) in real-world problems using standard units. (309.01.b)	--Predict outcomes and explain results of mathematical models and experiments. --Compare predictions, calculations, and experimental evidence for several aircraft conflict problems..
5.M.2.1.4 Solve problems related to elapsed time. (309.01.d)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Standard 3: Concepts and Language of Algebra and Functions

Goal 3.6: Apply functions to a variety of problems.

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.3.6.1 Use patterns to represent problems. (313.02.a)	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.

Standard 4: Concepts and Principles of Geometry

Goal 4.3: Apply graphing in two dimensions.

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.4.3.1 Use ordered pairs to identify and plot points in the first quadrant on a coordinate grid. (311.02.a)	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.

Standard 5: Data Analysis, Probability, and Statistics

Goal 5.1: Understand data analysis.

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.5.1.1 Read and interpret tables, charts, bar graphs, and line graphs. (312.01.a)	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system. --Use tables, bar graphs, line graphs, equations, and a Cartesian coordinate system to draw conclusions.

Goal 5.2: Collect, organize, and display data.

Objective(s)	<i>FlyBy Math™</i> Activities
5.M.5.2.1 Collect, organize, and display the data with appropriate notation in tables, charts, bar graphs, and line graphs. (312.02.a)	--Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs. --Choose among tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.

Goal 5.5: Make predictions or decisions based on data.**Objective(s)**

5.M.5.5.1 Make predictions and decisions based on information. (308.01.c)

***FlyBy Math™* Activities**

--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.